

Specifications					
Model name		CP-CW301WN	CP-CW251WN	CP-CX301WN	CP-CX251N
Display system		3LCD			
Display device	Size of effective display area	0.59", aspect ratio 16:10		0.63", aspect ratio 4:3	
	Number of pixels	1,024,000 pixels (1,280 horizontal x 800 vertical)		786,432 pixels (1,024 horizontal x 768 vertical)	
Lens		Zoom	Digital zoom: x 1.35		
		Focus	Manual		
Light source		225W			
Screen size		60 -150 inch			
Light output(Brightness)		3,100lm	2,600lm	3,100lm	2,500lm
Contrast ratio		10,000 : 1 (full white / full black)			2,000 : 1 (full white/full black)
Speaker		16W x 1 mono			1W x 1 (mono)
Displayable scanning frequency	Horizontal	15 -106 kHz			
	Vertical	50 -120 Hz			
Terminals	COMPUTER IN 1	D-sub 15-pin mini connector x 1			
	COMPUTER IN 2 / MONITOR OUT	D-sub 15-pin mini connector x 1			
	S-VIDEO	n/a			Mini DIN 4-pin x 1
	VIDEO	RCA connector x 1			
	HDMI IN	HDMI connector x 2 (HDCP compliant)			HDMI connector x 1 (HDCP compliant)
	AUDIO IN1	3.5mm stereo mini connector x 1			RCA connector L / R x 1
	AUDIO IN2	RCA connector L / R x 1			n/a
	AUDIO OUT	3.5mm stereo mini connector x 1			RCA connector L / R x 1
	Microphone Input	3.5mm mono mini connector x 1			n/a
	CONTROL (RS-232C)	D-sub 9-pin connector x 1			
	LAN	RJ45 connector x 1			
USB-A	USB type A x 2 (PC less presentation or wireless adapter)			n/a	
	USB-B	USB type B x 1 (USB display and USB mouse control)			USB type B x 1 (USB mouse control)
Operating temperature		0 - 40°C			
		35 - 40°C (The brightness of lamp is reduced automatically.)			
Operating humidity (RH)		20 - 80%RH (non-condensing)			
Power requirements		AC 100 - 120V (50 / 60Hz) : 3.5A AC 220 - 240V (50 / 60Hz) : 1.7A			AC 100 - 120V (50 / 60Hz) : 3.1A AC 220 - 240V (50 / 60Hz) : 1.5A
Power consumption		AC 100 -120V : 340W AC 220 - 240V : 320W			AC 100 - 120V : 300W AC 220 - 240V : 290W
Standby mode power consumption		0.35W at saving mode			
Standard outside dimensions (WxHxD)		350mm x 134mm x 305mm (13.8" x 5.3" x 12.0") 345mm x 85mm x 303mm (13.6" x 3.2" x 11.9") (Excluding protrusions)			
Weight		approx. 3.6kg (7.9lbs.)			approx. 3.4kg (7.5lbs.)
Accessories		Remote control, AA batteries, Power cord, Computer cable, Lens cover, Strap, User's manuals (Book, CD), Security label, Application CD, Adapter cover			Remote control, AA batteries, Power cord, Computer cable, Lens cover, Strap, User's manuals (Book, CD), Security label

Environment
<p>► <b>Compliance with EU Directive RoHS<sup>*1</sup></b></p> <p>► <b>Reduction of resin usage in production</b></p> <p>Use of hot runners in molds for making upper housing in order to reduce mill ends.</p> <p>► <b>Reduction of CO<sub>2</sub> emissions</b></p> <p>Carton volume has been cut down to 75%<sup>*2</sup>, reducing CO<sub>2</sub> emissions during transport.</p> <p>► <b>Power saving mode engaged during standby</b></p> <p>► <b>Eco mode</b></p> <p>Eco mode provides power saving.</p>
<p><sup>*1</sup> RoHS is the acronym of "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment".</p> <p><sup>*2</sup> Compared to Hitachi CP-A100 ultra short throw projector on the basis of one carton box.</p>

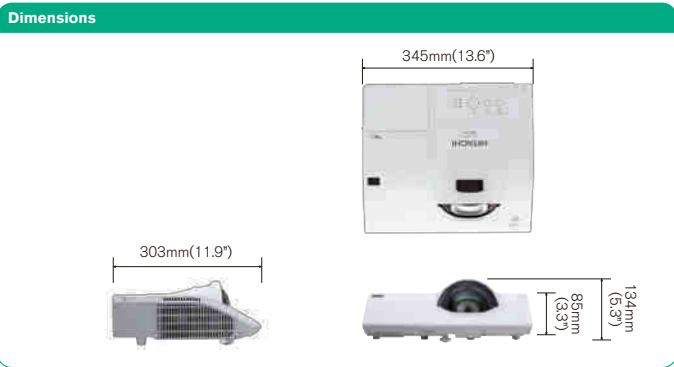
- Design and specifications are subject to change without notice.
- The projected images and comparison photos in this catalog are simulations.
- LCD panels, polarizers and other optical components and cooling fans may need replacement after prolonged usage. For more details, please consult a Hitachi sales representative.
- Do not use in places where there is a lot of water, dampness, steam, dust, soot or tobacco smoke. This may result in fire or malfunction.
- Optical components (lamp, LCD panel, polarizing plate, PBS[polarizer beam splitter]) and cooling fans have limited service lives. They must be repaired or replaced if they are used for a long period of time.
- These projectors use a mercury lamp with high internal pressure. Because of its properties, this lamp may burst with a loud noise or burn out if struck or after it has been used for a period of time. The time until it bursts or burns out varies greatly according to differences between lamps and usage conditions. Turning the lamp's power on and off frequently shortens its service life.
- Optical components other than the lamp: If the projector is used for six hours or more per day, they may need to be replaced in less than a year.
- LCD panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened.
- Do not turn projector on again for ten minutes after shutdown. Neglect can shorten the lifetime or the lamp. During use and immediately after use, do not touch anywhere near the lamp and the vents as these parts are extremely hot.
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## Projection Distance

### On a horizontal surface

### Suspended from the ceiling

#### CP-CW301WN CP-CW251WN

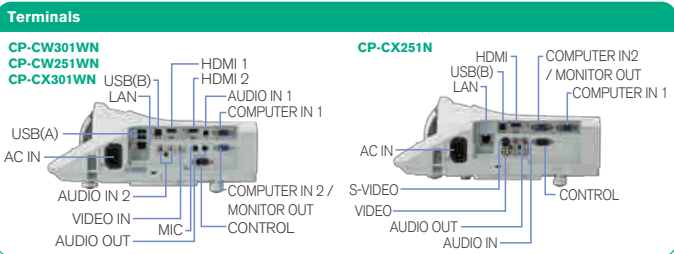
(1280 x 800) (±8%)

Screen size (diagonal)		Projection distance		Screen height		Screen height	
a		b		c1		c2	
type(inch)	m	m	inch	m	inch	m	inch
60	1.5	0.735	28.9	0.242	9.5	1.050	41.3
70	1.8	0.870	34.3	0.272	10.7	1.214	47.8
80	2.0	1.006	39.6	0.302	11.9	1.379	54.3
90	2.3	1.141	44.9	0.331	13.0	1.543	60.7
100	2.5	1.276	50.2	0.361	14.2	1.707	67.2
120	3.0	1.547	60.9	0.420	16.5	2.035	80.1
150	3.8	1.953	76.9	0.508	20.0	2.528	99.5

#### CP-CX301WN CP-CX251N

(1024 x 768) (±8%)

Screen size (diagonal)		Projection distance		Screen height		Screen height	
a		b		c1		c2	
type(inch)	m	m	inch	m	inch	m	inch
60	1.5	0.691	27.2	0.155	6.1	1.069	42.1
70	1.8	0.818	32.2	0.171	6.7	1.237	48.7
80	2.0	0.946	37.2	0.186	7.3	1.405	55.3
90	2.3	1.073	42.3	0.202	7.9	1.573	61.9
100	2.5	1.201	47.3	0.217	8.6	1.741	68.6
120	3.0	1.456	57.3	0.249	9.8	2.077	81.8
150	3.8	1.838	72.4	0.295	11.6	2.581	101.6



## Super-Short Throw Projector

HITACHI  
Inspire the Next



These projectors achieve a  
projection on a 2m (80") screen  
at a distance of 94.6cm(37.2")\*.

\* CP-CX301WN/CP-CX251N

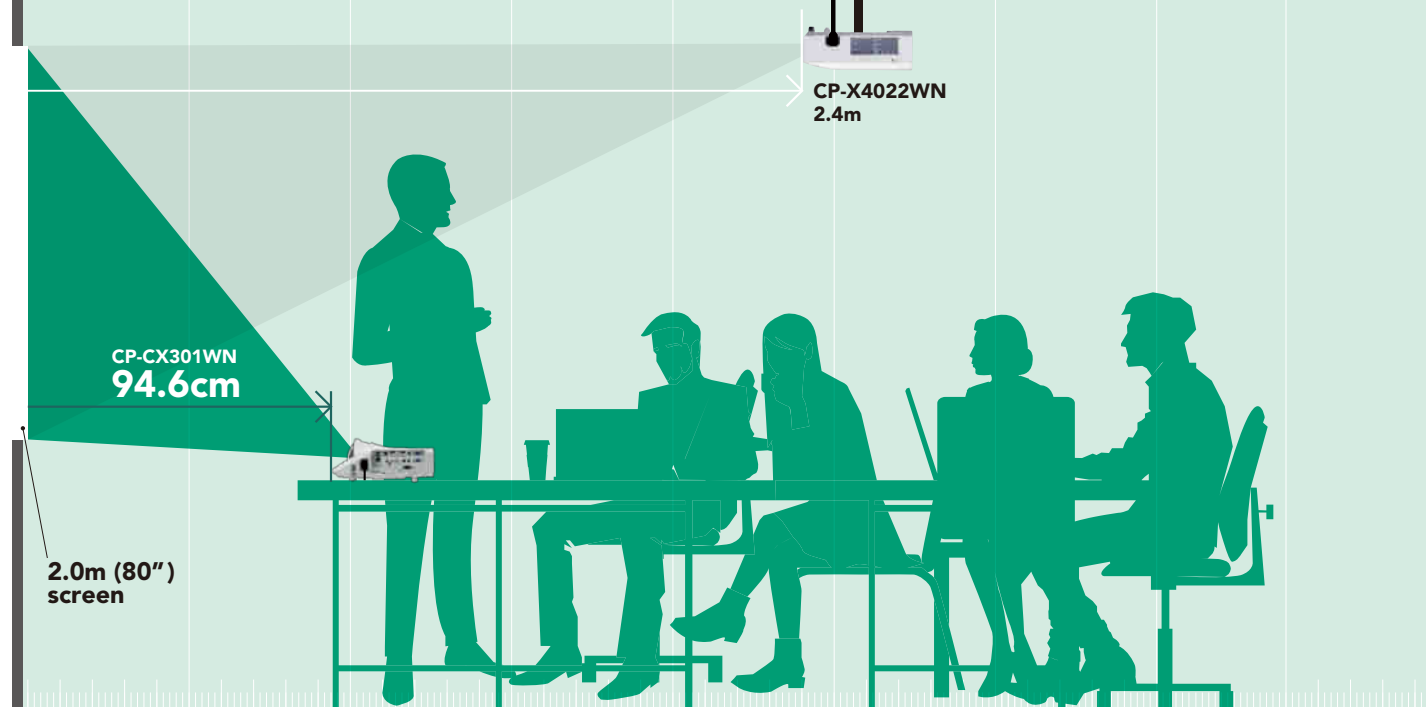


CP-CW301WN CP-CW251WN  
CP-CX301WN CP-CX251N



\*Projected images are simulations

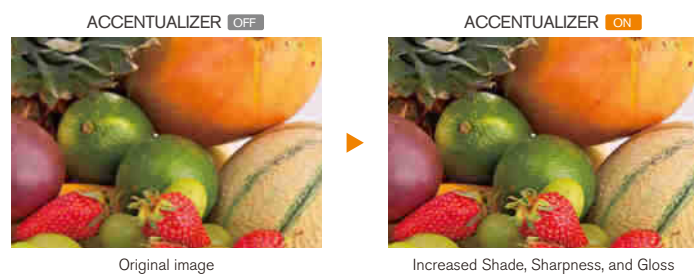
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## ACCENTUALIZER

For CP-CW301WN/CP-CX251WN/CP-CX301WN

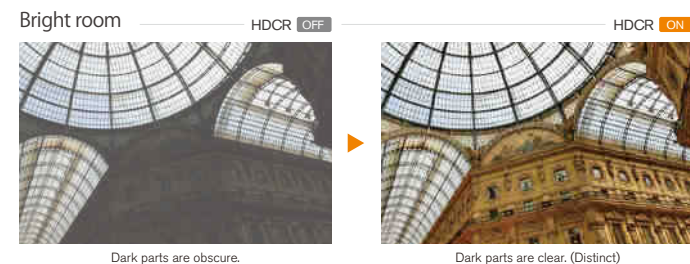
Hitachi original technology makes pictures look more real by enhancing (1) Shade, (2) Sharpness and (3) Gloss to make pictures as clear as pictures on a flat-panel device. You can also adjust the effects by three levels according to your surroundings so that the colors of projected images are the actual colors of the objects they represent.



## HDCR (High Dynamic Contrast Range)

For CP-CW301WN/CP-CX251WN/CP-CX301WN

When average projectors are used in bright rooms, the darker colors of an image deteriorate and images become unclear. Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. This results in clear images even in bright rooms.

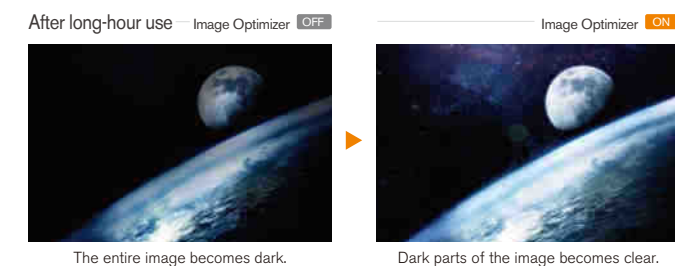


## Image Optimizer

For CP-CW301WN/CP-CX251WN/CP-CX301WN

Equipped with IMAGE OPTIMIZER, Hitachi's original function that maintains visibility of an image through automatic image correction in accordance with lamp condition.

- This function may not work properly when HDCR/ACCENTUALIZER is ON.



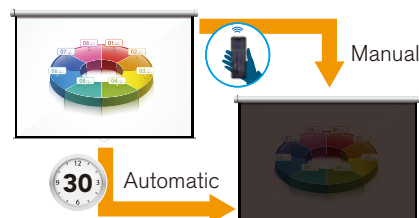
## Blackboard / Whiteboard modes

Improve image quality when you project onto a blackboard or whiteboard, ensuring optimum visibility.

## Go Green

### Saver Mode

This feature developed by Hitachi, based on ImageCare® technology, reduces the lamp brightness and consumption power, resulting in considerable energy savings. The saver mode automatically activates when the projected image does not change in the preset time (1 to 30 minutes). You can also activate the saver mode manually with the remote controller.



### Intelligent Eco Mode

This feature developed by Hitachi, based on ImageCare® technology, automatically changes the lamp brightness according to the input signal level. The lamp brightness is reduced when a darker image is projected, and returns to normal when a brighter image is projected, eliminating unnecessary energy consumption from the lamp.

## LINE UP

\* Local availability may be limited.

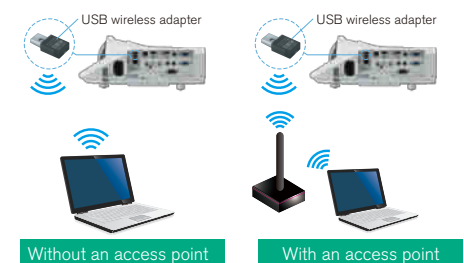


## Network Function / Capability

### Wireless Capability (Option)

For CP-CW301WN/CP-CX251WN/CP-CX301WN

The projectors are capable of a wireless network with the optional USB wireless adapter that supports IEEE802.11b/g/n. You can control the projector with a computer via the network, and also project the screen of the computer.



Projector Quick Connection, the dedicated free online application software, enables you to project images, documents, and photos, and to control the projector from a tablet or a smartphone.

\* See the Hitachi website for details  
[http://www.hitachi.co.jp/proj/en/apps/pj\\_connection.html](http://www.hitachi.co.jp/proj/en/apps/pj_connection.html)

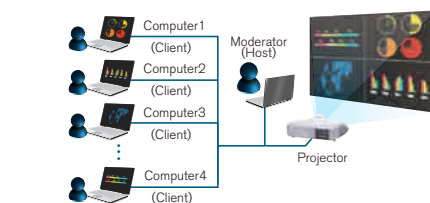


### Network Presentation\*1

For CP-CW301WN/CP-CX251WN/CP-CX301WN

#### Moderator Control Mode

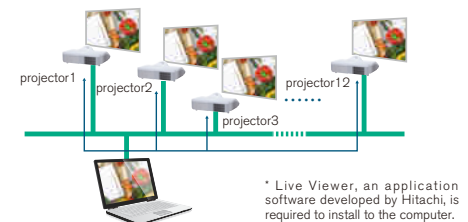
Setting one computer from the multiple computers (up to 50\*2) that are connected to the projector as the moderator (host) makes it possible for the moderator to project from all the computers (clients).



\*Live Viewer, an application software developed by Hitachi, is required to install to all the computer. Moderator Control is supported by Live Viewer 6 (Windows® application) only. Live Viewer is a software developed by Hitachi, delivered with projector products or via Hitachi homepage, required to install to all the computer ors in this mode.

#### Multi Projector Mode

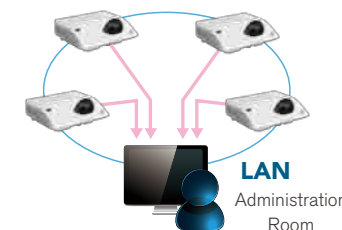
You can project the same image from up to 12\*3 projectors simultaneously. This is useful for meetings and lectures in large venues where a single screen would not be sufficient.



\*1 To secure better performance, a wired network is preferable. \*2 Video and audio transfer speed may vary depending on number of computers connected. \*3 Video transfer speed may vary depending on number of projectors connected. Note: Required to install the software from the bundled CD-ROM on all the computers in order to transfer the computer screen image to projectors.

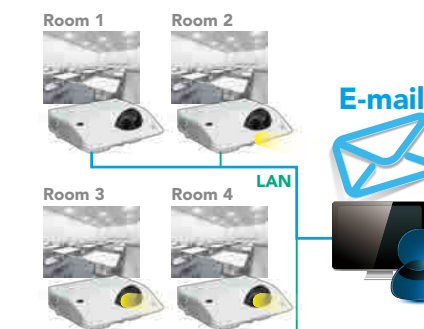
### Projector Monitoring and Control

Manage and control multiple projectors over your LAN with Centralized Reporting, Scheduling, E-mail Alerts, and My Image (Image Transfer).



#### E-mail Alerts

E-mail notification is sent for routine maintenance and error conditions.



## Other Features

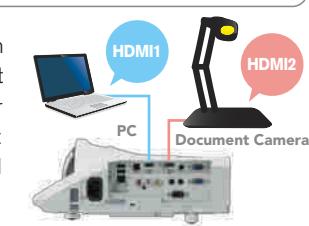
### Hybrid Filter

The Hybrid Filter requires less frequent maintenance and cleaning, making longer operation possible.



### 2 HDMI inputs

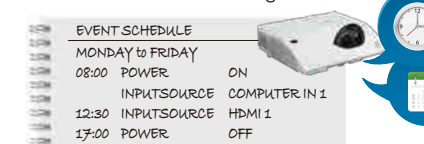
Equipped with 2 HDMI input terminals for the current widely-used interface.



\* CP-CX251N has one HDMI input terminal.

### Easy Schedule Setting

You can schedule routine and special projector events, including power on, power off, input selection and other settings.



### Mic. Input and 16W Internal Speaker\*1

The projectors are equipped with a microphone input, so you can use microphone system even when the projector is in standby\*. Projectors have a built-in 16-watt speaker.

\* Not available when STANDBY MODE is SAVING.

\*1 CP-CX251N has a 1W speaker and no MIC input terminal.

### USB Display

For CP-CW301WN/CP-CX251WN/CP-CX301WN

Connecting the USB type B connector of the projector to a computer via a USB cable lets you quickly and easily display images with sounds transferred from the computer.

### More Convenient Functions

Digital Zoom, Digital Shift, Direct Power On / Off, Template, Input Source Naming, Auto Signal Search, PIN Lock System, Security Bar / Security Slot, Keypad Lock, MyScreen